WATER CONSERVATION PLAN FOR THE CITY OF WYLIE, TEXAS

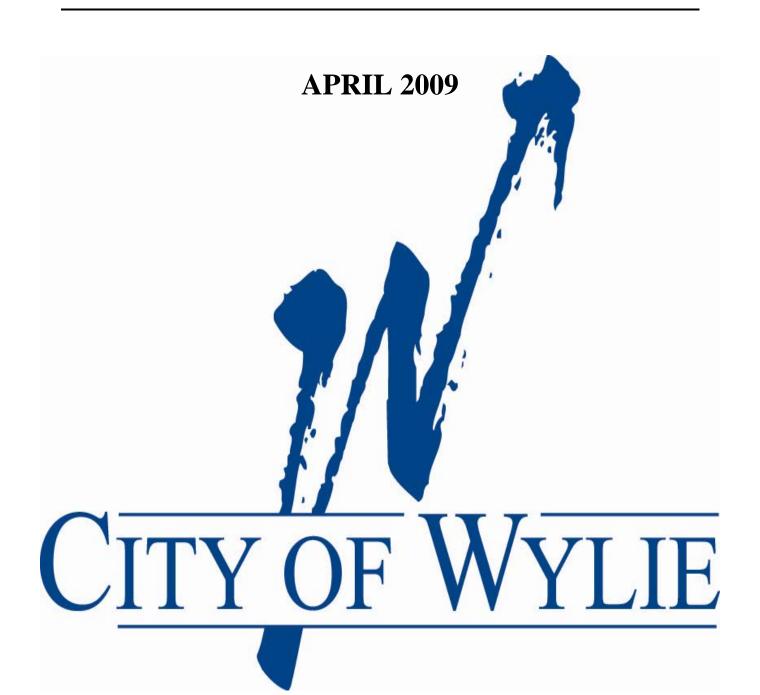


TABLE OF CONTENTS

1.	INT	RODUCTION AND OBJECTIVES	1-1
2.	TEX	AS COMMISSION ON ENVIRONMENTAL QUALITY RULES	2-1
	2.1	Conservation Plans	2-1
3.	WA	TER UTILITY PROFILE	3-1
4.	SPE	CIFICATION OF WATER CONSERVATION GOALS	4-1
5.		TERING, WATER USE RECORDS, CONTROL OF UNACCOUNTED TER, AND LEAK DETECTION AND REPAIR	5-1
	5.1	Accurate Metering of Treated Water Deliveries from NTMWD	5-1
	5.2	Metering of Customer and Public Uses and Meter Testing, Repair, and Replacement	5-1
	5.3	Record Management System	5-1
	5.4	Determination and Control of Unaccounted Water	5-1
	5.5	Leak Detection and Repair	5-2
	5.6	Monitoring of Effectiveness and Efficiency-Annual Water Conservation Report	5-2
	5.7	Water Conservation Implementation Report	5-2
6.	CON	NTINUING PUBLIC EDUCATION AND INFORMATION CAMPAIGN	6-1
7.	WA	TER RATE STRUCTURE	7-1
8.	OTF	HER WATER CONSERVATION MEASURES	8-1
	8.1	NTMWD System Operation Plan	8-1
	8.2	Reuse and Recycling of Wastewater	8-1
	8.3	Ordinances, Plumbing Codes, or Rules on Water-Conserving Fixtures	8-1
	8.4	Landscape Water Management Measures	8-1
	8.5	Additional Water Conservation Measures	8-2
	8.6	Requirement for Water Conservation Plans by Wholesale Customers	8-3
	8.7	Coordination with Regional Water Planning Group and NTMWD	8-3

	IMPLEMENTATION AND ENFORCEMENT OF THE WATER	9.
9-1	CONSERVATION PLAN	
10-1	O. REVIEW AND UPDATE OF WATER CONSERVATION PLAN	1(

APPENDICES

APPENDIX A	List of References
APPENDIX B	Texas Commission on Environmental Quality Rules on
	Municipal Water Conservation Plans
	TAC Title 30, Part 1, Chapter 288, Subchapter A, Rule
	§288.1 – Definitions (Page B-1)
	TAC Title 30, Part 1, Chapter 288, Subchapter A, Rule
	§288.2 – Water Conservation Plans for Municipal Uses by
	Public Water Suppliers (Page B-4)
APPENDIX C	TCEQ Water Utility Profile
APPENDIX D	NTMWD Member City and Customer Annual Water
A DDELVIDAY E	Conservation Report
APPENDIX E	Considerations for Landscape Water Management Regulations
APPENDIX F	Letters to Region C and Region D Water Planning Groups
APPENDIX G	Adoption of Water Conservation Plan
	 Municipal Ordinance Adopting Water Conservation Plan
	 Municipal Utility District Order Adopting Water
	Conservation Plan
	 Special Utility District Order Adopting Water Conservation Plan
	 Water Supply Corporation Resolution Adopting Water
	Conservation Plan
APPENDIX H	Illegal Water Connections and Theft of Water
	 Municipal Ordinance Pertaining to Illegal Water
	Connections and Theft of Water
	 Municipal Utility District Order Pertaining to Illegal Water
	Connections and Theft of Water
	 Special Utility District Order Pertaining to Illegal Water
	Connections and Theft of Water
	 Water Supply Corporation Resolution Pertaining to Illegal
	Water Connections and Theft of Water
APPENDIX I	TCEQ Water Conservation Implementation Report

Water Conservation and Drought Contingency and Water Emergency Response Plan for the City of Wylie, Texas

1. INTRODUCTION AND OBJECTIVES

Water supply has always been a key issue in the development of Texas. In recent years, the growing population and economic development of North Central Texas has led to increasing demands for water supplies. At the same time, local and less expensive sources of water supply are largely developed. Additional supplies to meet higher demands will be expensive and difficult to develop. It is therefore important that North Texas Municipal Water District (NTMWD) and The City of Wylie (City) make the most efficient use of existing supplies. This will delay the need for new supplies, minimize the environmental impacts associated with developing new supplies, and delay the high cost of additional water supply development.

Recognizing the need for efficient use of existing water supplies, the Texas Commission on Environmental Quality (TCEQ) has developed guidelines and requirements governing the development of water conservation and drought contingency plans for public water suppliers. TCEQ guidelines and requirements are included in Appendix B. The best management practices established by the Water Conservation Implementation Task Force, established pursuant to Senate Bill (SB) 1094 by the 78th Texas Legislature, were also considered in the development of the water conservation measures. The NTMWD developed a Model Water Conservation Plan for its Member Cities and Customers (NTMWD Model Plan) following TCEQ guidelines and requirements. The current NTMWD Model Plan was developed in concert with the NTMWD's Water Conservation Plan and replaces the NTMWD Model Plan dated August 2004 and April 2006.

The water conservation sections of the NTMWD Model Plan include measures that are intended to result in ongoing, long-term water savings.

The objectives of this water conservation plan are as follows:

- To reduce water consumption from the levels that would prevail without conservation efforts.
- To reduce the loss and waste of water.
- To improve efficiency in the use of water.
- To document the level of recycling and reuse in the water supply.
- To extend the life of current water supplies by reducing the rate of growth in demand.

The water conservation sections presented in this document were derived from a Model Water Conservation Plan intended for adoption by the NTMWD Member Cities and Customers. In order to adopt this NTMWD Model Plan, the City of Wylie will need to do the following:

• Complete the water utility profile (Appendix C).

- Complete the NTMWD member city annual water conservation report (Appendix D).
- Complete the annual water conservation implementation report (Appendix I).
- Set five-year and ten-year goals for per capita water use (Table 4.1).
- Adopt an ordinance approving the plan.

The water utility profile, goals, and ordinance(s) or regulations will be provided to NTMWD in draft form for review and comments. Final adopted versions will also be provided to NTMWD, as well as TCEQ.

This Water Conservation Plan for the City of Wylie, Texas (City Plan) applies to all users of the City of Wylie water supply.

This City Plan includes all of the elements required by TCEQ.

2. TEXAS COMMISSION ON ENVIRONMENTAL QUALITY RULES

2.1 Conservation Plans

The TCEQ rules governing development of water conservation plans for public water suppliers are contained in TAC Title 30, Part 1, Chapter 288, Subchapter A, Rule 288.2, which is included in Appendix B. For the purpose of these rules, a water conservation plan is defined as "A strategy or combination of strategies for reducing the volume of water withdrawn from a water supply source, for reducing the loss or waste of water, for maintaining or improving the efficiency in the use of water, for increasing the recycling and reuse of water, and for preventing the pollution of water." The elements in the TCEQ water conservation rules covered in the conservation sections of the City Plan are listed below.

Minimum Conservation Plan Requirements

The minimum requirements in the TAC for water conservation plans for Public Water Suppliers are covered in this report as follows:

- 288.2(a)(1)(A) Utility Profile Section 3 and Appendix C
- 288.2(a)(1)(B) Specification of Goals Section 4
- 288.2(a)(1)(C) Specific, Quantified Goals Section 4
- 288.2(a)(1)(D) Accurate Metering Sections 5.1 and 5.2
- 288.2(a)(1)(E) Universal Metering Section 5.2
- 288.2(a)(1)(F) Determination and Control of Unaccounted Water Section 5.4
- 288.2(a)(1)(G) Public Education and Information Program Section 6
- 288.2(a)(1)(H) Non-Promotional Water Rate Structure Section 7
- 288.2(a)(1)(I) Reservoir System Operation Plan Section 8.1
- 288.2(a)(1)(J) Means of Implementation and Enforcement Section 9
- 288.2(a)(1)(K) Coordination with Regional Water Planning Group Section 8.7 and Appendix F
- 288.2(c) Review and Update of Plan Section 10

Conservation Additional Requirements (Population over 5,000)

The TAC includes additional requirements for water conservation plans for Public Water Suppliers serving a population over 5,000:

- 288.2(a)(2)(A) Leak Detection, Repair, and Water Loss Accounting Sections 5.4, 5.5, and 5.6
- 288.2(a)(2)(B) Record Management System Section 5.3

■ 288.2(a)(2)(C) – Requirement for Water Conservation Plans by Wholesale Customers – Section 8.6

Additional Conservation Strategies

The TCEQ requires that a water conservation implementation report be completed and submitted on an annual basis. This report is included in Appendix I.

In addition to the TCEQ required water conservation strategies, the NTMWD also requires the following strategy to be included in the Member City and Customer plans and this strategy is incorporated into the City Plan.

288.2(a)(3)(F) – Considerations for Landscape Water Management Regulations –
 Section 8.4 and Appendix E

TCEQ rules also include optional, but not required, conservation strategies, which may be adopted by suppliers. The NTMWD recommends that the following strategies be included in the Member City and Customer water conservation plans:

- 288.2(a)(3)(A) Conservation Oriented Water Rates Section 7
- 288.2(a)(3)(B) Ordinances, Plumbing Codes or Rules on Water-Conserving Fixtures Section 8.3
- 288.2(a)(3)(C) Replacement or Retrofit of Water-Conserving Plumbing Fixtures Section 8.5
- 288.2(a)(3)(D) Reuse and Recycling of Wastewater Section 8.2
- 288.2(a)(3)(F) Considerations for Landscape Water Management Regulations Section 8.5 and Appendix E
- 288.2(a)(3)(G) Monitoring Method Section 5.6
- 288.2(a)(3)(H) Additional Conservation Ordinance Provisions Section 8.5

3. WATER UTILITY PROFILE

Appendix C to this City Plan is the City of Wylie water utility profile based on the format recommended by the TCEQ. In adopting this City Plan, the City of Wylie will provide a draft water utility profile to NTMWD for review and comment. A final water utility profile will also be provided to NTMWD.

4. SPECIFICATION OF WATER CONSERVATION GOALS

TCEQ rules require the adoption of specific water conservation goals for a water conservation plan. As part of plan adoption, each Member City and Customer must develop 5-year and 10-year goals for per capita municipal use. These goals should be submitted to NTMWD in draft form for review. The goals for this City Plan include the following:

- Maintain the per capita municipal water use below the specified amount in gallons per capita per day in a dry year, as shown in the completed Table 4.1.
- Maintain the level of unaccounted water in the system below 12 percent annually in 2009 and subsequent years, as discussed in Section 5.4.
- Implement and maintain a program of universal metering and meter replacement and repair, as discussed in Section 5.2.
- Increase efficient water usage through a water conservation ordinance, order or resolution as discussed in Section 8.4 and Appendix E.
- Decrease waste in lawn irrigation by implementation and enforcement of landscape water management regulations, as discussed in Section 8.5 and Appendix E.
- Raise public awareness of water conservation and encourage responsible public behavior by a public education and information program, as discussed in Section 6.
- Develop a system specific strategy to conserve water during peak demands, thereby reducing the peak use.

Table 4.1
Five-Year and Ten-Year Municipal Per Capita Water Use Goals (gpcd)

Description	Current Average (gpcd)	5-Year Goal (gpcd)	10-Year Goal (gpcd)
Current 5-Year Average Per Capita Municipal Use with Credit for Reuse	119*	119*	119*
Expected Reduction due to Low-Flow Plumbing Fixtures	0	1	1
Projected Reduction Due to Elements in this City Plan	0	3	3
Water Conservation Goals (with credit for reuse)	119	115	115

^{*} Based on 2004-2008 consumption

5. METERING, WATER USE RECORDS, CONTROL OF UNACCOUNTED WATER, AND LEAK DETECTION AND REPAIR

One of the key elements of water conservation is tracking water use and controlling losses through illegal diversions and leaks. It is important to carefully meter water use, detect and repair leaks in the distribution system and provide regular monitoring of unaccounted water.

5.1 Accurate Metering of Treated Water Deliveries from NTMWD

Water deliveries from NTMWD are metered by NTMWD using meters with accuracy of ± 2 percent. These meters are calibrated on a monthly basis by NTMWD to maintain the required accuracy.

5.2 Metering of Customer and Public Uses and Meter Testing, Repair, and Replacement

The provision of water to all customers, including private, public and governmental users, will continue to be metered in the City of Wylie. The City of Wylie will test and replace their residential customer meters on a regular basis. All residential customer meters will be budgeted to be replaced on a minimum of a 15-year cycle. Additionally, large meters will be regularly tested on no less than a 5-year interval and either maintained or replaced when their test flow is more than a 3 percent difference from actual flow.

5.3 Record Management System

As required by TAC Title 30, Part 1, Chapter 288, Subchapter A, Rule 288.2(a)(2)(B), the City of Wylie will maintain a customer billing and record management system that allows for the separation of water sales and uses into residential, commercial, public/institutional, and industrial categories. This information will be included in an annual water conservation report, as described in Section 5.6. Should TCEQ, TWDB, or NTMWD require the inclusion of additional customer classes, the City will add the required classes to its billing and records management system.

5.4 Determination and Control of Unaccounted Water

Unaccounted water is the difference between water delivered to the City of Wylie from NTMWD (and other supplies, if applicable) and metered water sales to customers plus authorized but unmetered uses. (Authorized but unmetered uses would include use for fire fighting, releases for flushing of lines, uses associated with new construction, etc.). Unaccounted water can include several categories:

- Inaccuracies in customer meters. (Customer meters tend to run more slowly as they age and under-report actual use.)
- Accounts which are being used but have not yet been added to the billing system.
- Losses due to water main breaks and leaks in the water distribution system.
- Losses due to fire fighting.

- Losses due to illegal connections and theft.
- Other.

Measures to control unaccounted water will be part of the routine operations of the City of Wylie. Maintenance crews and personnel will test for, observe for, and report evidence of leaks in the water distribution system. A leak detection and repair program is described in Section 5.5 below. Meter services technicians and all City crews will watch for and report signs of water loss and illegal connections, so they can be quickly addressed.

Unaccounted water should be calculated in accordance with the provisions of Appendix C. With the measures described in this City Plan, the City of Wylie should maintain unaccounted water below 12 percent in 2009 and subsequent years. If unaccounted water exceeds this goal, the City of Wylie will implement a more intensive audit to determine the source(s) of and reduce the unaccounted water. The annual conservation report described below is the primary tool that should be used to monitor unaccounted water.

5.5 Leak Detection and Repair

As described above, City crews and personnel should look for and report evidence of leaks in the water distribution system. Areas of the water distribution system, in which numerous leaks and line breaks occur, should be targeted for replacement as funds are available.

5.6 Monitoring of Effectiveness and Efficiency - Annual Water Conservation Report

Appendix D is a form that should be used in the development of an annual water conservation report by the City of Wylie. This form should be completed by March 31 of the following year and used to monitor the effectiveness and efficiency of the water conservation program and to plan conservation-related activities for the next year. The form records the water use by category, per capita municipal use, and unaccounted water for the current year and compares them to historical values. The annual water conservation report should be sent to NTMWD, which will monitor NTMWD Member Cities' and Customers' water conservation trends.

5.7 Water Conservation Implementation Report

Appendix I includes the TCEQ-required water conservation implementation report. The report is due to the TCEQ by May 1 of every year, starting in the year 2010. This report lists the various water conservation strategies that have been implemented, including the date the strategy was implemented. The report also calls for the five-year and ten-year per capita water use goals from the water conservation plan. The reporting entity must answer whether or not these goals have been met and if not, why not. The amount of water saved is also requested.

6. CONTINUING PUBLIC EDUCATION AND INFORMATION CAMPAIGN

The continuing public education and information campaign on water conservation includes the following elements:

- Utilize the "Water IQ: Know Your Water" and other public education materials produced by the NTMWD.
- Insert water conservation information with water bills. Inserts will include material developed by the City of Wylie staff and material obtained from the NTMWD, TWDB, TCEQ, and other sources.
- Encourage local media coverage of water conservation issues and the importance of water conservation.
- Notify local organizations, schools, and civic groups that the City of Wylie staff and staff of the NTMWD are available to make presentations on the importance of water conservation and ways to save water.
- Promote the *Texas Smartscape* web site (<u>www.txsmartscape.com</u>) and provide water conservation brochures and other water conservation materials available to the public at City Hall and other public places.
- Make information on water conservation available on its web site and include links to the "Water IQ: Know Your Water" website, *Texas Smartscape* web site and to information on water conservation on the TWDB and TCEQ web sites and other resources.

7. WATER RATE STRUCTURE

The City of Wylie will continue to bill customers using an increasing block rate water structure that is intended to encourage water conservation and discourage excessive use and waste of water. An example water rate structure suggested by the NTMWD Model Plan is provided below. The current City of Wylie rate structure is similar to the minimum requirements suggested by the NTMWD.

Residential Rates

- 1. Monthly minimum charge. This can (but does not have to) include up to 2,000 gallons water use with no additional charge.
- 2. Base charge per 1,000 gallons up to the approximate average residential use.
- 3. 2nd tier (from the average to 2 times the approximate average) at 1.25 to 2.0 times the base charge.
- 4. 3^{rd} tier (above 2 times the approximate average) at 1.25 to 2.0 times the 2^{nd} tier.
- 5. The residential rate can also include a lower tier for basic household use up to 4,000 gallons per month or a determined basic use.

Commercial/Industrial Rates

Commercial/industrial rates should include at least 2 tiers, with rates for the 2^{nd} tier at 1.25 to 2.0 times the first tier. Higher water rates for commercial irrigation use are encouraged, but not required.

8. OTHER WATER CONSERVATION MEASURES

8.1 NTMWD System Operation Plan

Member Cities and Customers of NTMWD purchase treated water from NTMWD and do not have surface water supplies for which to implement a system operation plan. NTMWD's permits do allow some coordinated operation of its water supply sources, and NTMWD is seeking additional water rights for coordinated operation to optimize its available water supplies.

8.2 Reuse and Recycling of Wastewater

Most Member Cities and Customers do not own and operate their own wastewater treatment plants. Their wastewater is treated by NTMWD. NTMWD currently has the largest wastewater reuse program in the state. NTMWD has water rights allowing reuse of up to 71,882 acre-feet per year of this treated wastewater through Lake Lavon for municipal purposes. In addition, NTMWD has also developed the East Fork Raw Water Supply Project which can divert up to 157,393 acre-feet per year based on treated wastewater discharges by the NTMWD. When fully developed, these two reuse projects will provide up to 44 percent of the NTMWD's currently permitted water supplies. NTMWD also provides treated effluent from its wastewater treatment plants available for direct reuse for landscape irrigation and industrial use.

Although the City of Wylie does not operate its own wastewater treatment plant, the NTMWD encourages those Member Cities and Customers who own and operate their own wastewater treatment plants should move toward reusing treated effluent for irrigation purposes at their plant site over the next three years. These entities should also seek other alternatives for reuse of recycled wastewater effluent.

8.3 Ordinances, Plumbing Codes, or Rules on Water-Conserving Fixtures

The state has required water-conserving fixtures in new construction and renovations since 1992. The state standards call for flows of no more than 2.5 gallons per minute (gpm) for faucets, 3.0 gpm for showerheads, and 1.6 gallons per flush for toilets. Similar standards are now required nationally under federal law. These state and federal standards assure that all new construction and renovations will use water-conserving fixtures. The City of Wylie will continue to implement ordinances, plumbing codes, and rules on water conserving fixtures as they evolve through relevant building codes and State of Texas requirements. A rebate program to encourage water conservation through replacement of older fixtures may be offered when resources are available. Items for a potential rebate program are described in Section 8.5.

8.4 Landscape Water Management Measures

The following landscape water management measures are adopted for the City Plan.

- Time of day restrictions prohibiting lawn irrigation watering from 10 AM to 6 PM beginning April 1 and ending October 31 of each year.
- Prohibition of watering of impervious surfaces. (Wind driven water drift will be taken into consideration.)
- Prohibition of outdoor watering during precipitation or freeze events.
- Lawn and landscape irrigation limited to twice per week as per the chart below:

Trash Day	Watering Days
Monday	Monday and Thursday
Tuesday	Tuesday and Friday
Wednesday	Wednesday and Saturday
Thursday	Thursday and Sunday
Friday	Friday and Monday

- Prohibition of the use of treated water to fill or refill residential, amenity, and any other natural or manmade ponds. A pond is considered to be a still body of water with a surface area of 500 square feet or more.
- Rain and freeze sensors and/or ET or Smart controllers required on all new irrigation systems. Rain and freeze sensors and/or ET or Smart controllers must be maintained to function properly.
- "At home" car washing can be done only when using a hose with a shut-off nozzle.
- Prohibition of watering areas that have been overseeded with cool season grasses (such as rye grass or other similar grasses), except for golf course and public athletic fields.

8.5 Additional Water Conservation Measures

Appendix E is a summary of considerations for landscape water management regulations adopted as part of the development of this water conservation plan. These regulations are intended to minimize waste in landscape irrigation. Appendix E includes the required landscape water measures in 8.4. In addition, the City of Wylie adopts the following as part of the City Plan:

- Recommend, not require, that all existing irrigation systems be retrofitted with rain and freeze sensors and/or ET or Smart controllers capable of multiple programming. Rain and freeze sensors and/or ET or Smart controllers must be maintained to function properly.
- Prohibition of use of poorly maintained irrigation systems that waste water.

- Recommend no planting of cool season grasses (such as rye grass or other similar grasses) that intensify cool season water requirements, with an exception allowed for golf courses and public athletic fields.
- Requirement that the playing surface on all new public athletic fields be irrigated by a separate programmable irrigation zone from surrounding areas.
- Requirement that all new or rehabilitated irrigation systems must be designed, inspected, and installed in accordance with TCEQ rules.

In addition to the conservation measures described above and when resources are available, the City of Wylie may offer rebates for purchase of water conserving devices. The items for any potential City rebate program will change from time to time as the City's Water Conservation Rebate Program evolves. These items may include:

- Low-flow toilet replacement and rebate programs,
- Rebates for rain and freeze sensors and/or ET or Smart controllers,
- Low-flow showerhead and sink aerators replacement programs or rebates,
- ET/Smart irrigation controller rebates,
- Water efficient clothes washer rebates,
- Pressure reducing valve installation rebates,
- On-demand hot water heater rebates,
- Rain barrel rebates, or
- Other water conservation incentive programs.

8.6 Requirement for Water Conservation Plans by Wholesale Customers

The NTMWD Model Plan requires that every contract for the wholesale sale of water by Member Cities and/or Customers that is entered into, renewed, or extended after the adoption of this water conservation plan will include a requirement that the wholesale customer and any wholesale customers of that wholesale customer develop and implement a water conservation plan meeting the requirements of TAC Title 30, Part 1, Chapter 288, Subchapter A, Rule 288.2. The requirement will also extend to each successive wholesale customer in the resale of the water. **The City of Wylie does not currently contract for the resale of water to wholesale customers.**

8.7 Coordination with Regional Water Planning Group and NTMWD

Appendix F includes a letter sent by NTMWD to the Chair of the Region C water planning group with their NTMWD Model Plan. The City of Wylie will send a copy of their draft ordinance implementing the City Plan and their water utility profile to NTMWD for review and comment. The adopted ordinance and the adopted water utility profile will be sent to the Chair of the Region C Water Planning Group and to NTMWD.

9. IMPLEMENTATION AND ENFORCEMENT OF THE WATER CONSERVATION PLAN

Appendix G contains a copy of an ordinance, order, or resolution which may be tailored to meet Member City or Customer City needs and be adopted by the City Council or governing board regarding the water conservation plan. The ordinance, order, or resolution designates responsible officials to implement and enforce the water conservation plan. Appendix E, the considerations for landscape water management regulations, also includes information about enforcement. Appendix H includes a copy of an ordinance, order, or resolution that may be adopted related to illegal connections and water theft.

The City of Wylie is responsible for developing regulations, ordinances, policies, or procedures for enforcement of water conservation guidelines. The City of Wylie will adopt an ordinance(s) implementing the City Plan, which incorporates the NTMWD Model Plan, including the determination of fines and enforcement procedures.

10. REVIEW AND UPDATE OF WATER CONSERVATION PLAN

The City Plan will be updated based upon receipt of new or updated information, and as required by the TCEQ.

APPENDIX A LIST OF REFERENCES

Appendix A List of References

- (1) Title 30 of the Texas Administrative Code, Part 1, Chapter 288, Subchapter A, Rules 288.1 and 288.2, downloaded from http://info.sos.state.tx.us/pls/pub/readtac\$ext.ViewTAC?tac_view=4&ti=30&pt=1&ch=288, July 2007.
- (2) Water Conservation Implementation Task Force: "Texas Water Development Board Report 362, Water Conservation Best Management Practices Guide," prepared for the Texas Water Development Board, Austin, November 2004.
- (3) Freese and Nichols, Inc.: North Texas Municipal Water District Water Conservation and Drought Contingency/Water Emergency Response Plan, prepared for the North Texas Municipal Water District, Fort Worth, March 2008.

The following conservation and drought contingency plans and related documents were reviewed in the development of this plan. References marked with a * were used heavily in the development of this plan.

- (4) Edward Motley, Marisa Vergara, Tom Gooch, and Stephanie Griffin: Memorandum to File on "Region C Municipal Water Use Projections Adopted on August 18, 2003," Fort Worth, August 21, 2003.
- (5) City of Austin Water Conservation Division: "City of Austin Water Drought Contingency Plan, Developed to Meet Senate Bill 1 Regulatory Requirements," Austin, August 1999.
- (6) City of Austin Water Conservation Division: "City of Austin Water Conservation Plan, Developed to Meet Senate Bill 1 Regulatory Requirements," Austin, August 1999.
- (7) Upper Trinity Regional Water District: "Water Conservation Plan and Emergency Water Demand Management Plan," adopted by the Board of Directors, Lewisville, August 5, 1999.
- (8) Upper Trinity Regional Water District: "Water Conservation Plan and Emergency Water Demand Management Plan (2002 Amended)," adopted by the Board of Directors, Lewisville, February 2002.
- (9) *City of Dallas Water Utilities Department: "City of Dallas Water Management Plan," adopted by the City Council, Dallas, September 1999.
- (10) Updates to City of Dallas Water Management Plan found at http://www.dallascityhall.com in September 2003.
- (11) *City of Dallas Water Utilities Department: "City of Dallas Water Conservation Plan," adopted by the City Council, Dallas, September 1999.
- (12) *City of Fort Worth: "Water Conservation plan for the City of Fort Worth," Fort Worth, August 1999.

- (13) Updates to the City of Fort Worth water conservation plan found at http://ci./fort-worth.tx.us in September 2003.
- (14) *City of Fort Worth: "Emergency Water Management Plan for the City of Fort Worth," Fort Worth, August 19, 2003.
- (15) HDR Engineering, Inc.: "Water Conservation and Emergency Demand Management Plan," prepared for the Tarrant Regional Water District, Austin, February 2000.
- (16) Freese and Nichols, Inc.: "Water Conservation and Drought Contingency Plan," prepared for Brown County Water Improvement District No. 1, Fort Worth, August 1999.
- (17) Freese and Nichols, Inc.: "Water Conservation and Drought Contingency Plan," prepared for the Sabine River Authority of Texas, Fort Worth, September 1994.
 - (18) HDR Engineering, Inc.: "Water Conservation and Emergency Demand Management Plan," prepared for the Tarrant Regional Water District, Austin, June 1998.
- (19) HDR Engineering, Inc.: "Water Conservation Plan for the City of Corpus Christi," adopted by the City of Corpus Christi City Council, August 24, 1999.
- (20) City of Houston's water conservation plan downloaded September 2003 from http://www.cityofhouston.gov
- (21) City of Houston: "Ordinance N. 2001-753, Amending Chapter 47 of the Code of Ordinances Relating to Water Emergencies," Houston, August 2001.
- (22) City of Houston: "Ordinance No. 98-764, Relating to Water Conservation," Houston, September 1998.
- (23) City of Houston: "Water Conservation Plan," 1998.
- (24) City of Houston: "Water Emergency Response Plan," Houston, July 15, 1998.
- (25) City of Lubbock: "Water Conservation Plan," ordinance number 10177 adopted by the City Council in August 1999.
- (26) City of El Paso Water Conservation Ordinance downloaded August 14, 2003 from http://www.epwu.org/ordinance.html
- (27) San Antonio Water System: "Water Conservation and Reuse Plan," San Antonio, November 1998 with June 2002 updates.
- (28) North Texas Municipal Water District: "District Policy No. 24 Water Conservation Plan Containing Drought Contingency Plan," adopted August 1999.
- (29) GDS Associates, Inc.: "Water Conservation Study," prepared for the Texas Water Development Board, Fort Worth, 2002.
- (30) A & N Technical Services, Inc.: "BMP Costs & Savings Study: A Guide to Data and Methods for Cost-Effectiveness Analysis of Urban Water Conservation Best Management Practices," prepared for The California Urban Water Conservation Council, Santa Monica, California, July 2000.

(31) *City of Dallas: "City of Dallas Ordinances, Chapter 49, Section 21.1," Dallas, October 1, 2001.

APPENDIX B

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY RULES ON MUNICIPAL WATER CONSERVATION PLANS

APPENDIX B

Texas Commission on Environmental Quality Rules on Municipal Water Conservation Plans

Texas Administrative Code

TITLE 30

ENVIRONMENTAL QUALITY

PART 1

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CHAPTER 288

WATER CONSERVATION PLANS, DROUGHT CONTINGENCY PLANS, GUIDELINES AND

REQUIREMENTS

SUBCHAPTER A

WATER CONSERVATION PLANS

RULE §288.1

Definitions

The following words and terms, when used in this chapter, shall have the following meanings, unless the context clearly indicates otherwise.

- (1) Agricultural or Agriculture--Any of the following activities:
 - (A) cultivating the soil to produce crops for human food, animal feed, or planting seed or for the production of fibers;
 - (B) the practice of floriculture, viticulture, silviculture, and horticulture, including the cultivation of plants in containers or non-soil media by a nursery grower;
 - (C) raising, feeding, or keeping animals for breeding purposes or for the production of food or fiber, leather, pelts, or other tangible products having a commercial value;
 - (D) raising or keeping equine animals;
 - (E) wildlife management; and
 - (F) planting cover crops, including cover crops cultivated for transplantation, or leaving land idle for the purpose of participating in any governmental program or normal crop or livestock rotation procedure.
- (2) Agricultural use--Any use or activity involving agriculture, including irrigation.
- (3) Conservation--Those practices, techniques, and technologies that reduce the consumption of water, reduce the loss or waste of water, improve the efficiency in the use of water, or increase the recycling and reuse of water so that a water supply is made available for future or alternative uses.
- (4) Drought contingency plan--A strategy or combination of strategies for temporary supply and demand management responses to temporary and potentially recurring water supply shortages and other water supply emergencies. A drought contingency plan may be a separate document identified as such or may be contained within another water management document(s).
- (5) Industrial use--The use of water in processes designed to convert materials of a lower

- order of value into forms having greater usability and commercial value, commercial fish production, and the development of power by means other than hydroelectric, but does not include agricultural use.
- (6) Irrigation--The agricultural use of water for the irrigation of crops, trees, and pastureland, including, but not limited to, golf courses and parks which do not receive water through a municipal distribution system.
- (7) Irrigation water use efficiency--The percentage of that amount of irrigation water which is beneficially used by agriculture crops or other vegetation relative to the amount of water diverted from the source(s) of supply. Beneficial uses of water for irrigation purposes include, but are not limited to, evapotranspiration needs for vegetative maintenance and growth, salinity management, and leaching requirements associated with irrigation.
- (8) Mining use--The use of water for mining processes including hydraulic use, drilling, washing sand and gravel, and oil field repressuring.
- (9) Municipal per capita water use--The sum total of water diverted into a water supply system for residential, commercial, and public and institutional uses divided by actual population served.
- (10) Municipal use--The use of potable water within or outside a municipality and its environs whether supplied by a person, privately owned utility, political subdivision, or other entity as well as the use of sewage effluent for certain purposes, including the use of treated water for domestic purposes, fighting fires, sprinkling streets, flushing sewers and drains, watering parks and parkways, and recreational purposes, including public and private swimming pools, the use of potable water in industrial and commercial enterprises supplied by a municipal distribution system without special construction to meet its demands, and for the watering of lawns and family gardens.
- (11) Municipal use in gallons per capita per day--The total average daily amount of water diverted or pumped for treatment for potable use by a public water supply system. The calculation is made by dividing the water diverted or pumped for treatment for potable use by population served. Indirect reuse volumes shall be credited against total diversion volumes for the purpose of calculating gallons per capita per day for targets and goals.
- (12) Nursery grower--A person engaged in the practice of floriculture, viticulture, silviculture, and horticulture, including the cultivation of plants in containers or nonsoil media, who grows more than 50% of the products that the person either sells or leases, regardless of the variety sold, leased, or grown. For the purpose of this definition, grow means the actual cultivation or propagation of the product beyond the mere holding or maintaining of the item prior to sale or lease, and typically includes activities associated with the production or multiplying of stock such as the development of new plants from cuttings, grafts, plugs, or seedlings.
- (13) Pollution--The alteration of the physical, thermal, chemical, or biological quality of, or the contamination of, any water in the state that renders the water harmful, detrimental, or injurious to humans, animal life, vegetation, or property, or to the

- public health, safety, or welfare, or impairs the usefulness or the public enjoyment of the water for any lawful or reasonable purpose.
- (14) Public water supplier--An individual or entity that supplies water to the public for human consumption.
- (15) Regional water planning group--A group established by the Texas Water Development Board to prepare a regional water plan under Texas Water Code, §16.053.
- (16) Retail public water supplier--An individual or entity that for compensation supplies water to the public for human consumption. The term does not include an individual or entity that supplies water to itself or its employees or tenants when that water is not resold to or used by others.
- (17) Reuse--The authorized use for one or more beneficial purposes of use of water that remains unconsumed after the water is used for the original purpose of use and before that water is either disposed of or discharged or otherwise allowed to flow into a watercourse, lake, or other body of state-owned water.
- (18) Water conservation plan--A strategy or combination of strategies for reducing the volume of water withdrawn from a water supply source, for reducing the loss or waste of water, for maintaining or improving the efficiency in the use of water, for increasing the recycling and reuse of water, and for preventing the pollution of water. A water conservation plan may be a separate document identified as such or may be contained within another water management document(s).
- (19) Wholesale public water supplier--An individual or entity that for compensation supplies water to another for resale to the public for human consumption. The term does not include an individual or entity that supplies water to itself or its employees or tenants as an incident of that employee service or tenancy when that water is not resold to or used by others, or an individual or entity that conveys water to another individual or entity, but does not own the right to the water which is conveyed, whether or not for a delivery fee.

Source Note: The provisions of this §288.1 adopted to be effective May 3, 1993, 18 TexReg 2558; amended to be effective February 21, 1999, 24 TexReg 949; amended to be effective April 27, 2000, 25 TexReg 3544; amended to be effective August 15, 2002, 27 TexReg 7146, amended to be effective October 7, 2004, 29 TexReg 9384.

Texas Administrative Code

TITLE 30

ENVIRONMENTAL QUALITY

PART 1

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

CHAPTER 288

WATER CONSERVATION PLANS, DROUGHT

CONTINGENCY PLANS, GUIDELINES AND

REQUIREMENTS

SUBCHAPTER A

WATER CONSERVATION PLANS

RULE §288.2

Water Conservation Plans for Municipal Uses by Public

Water Suppliers

- (a) A water conservation plan for municipal water use by public water suppliers shall provide information in response to the following. If the plan does not provide information for each requirement, the public water supplier shall include in the plan an explanation of why the requirement is not applicable.
 - (1) Minimum requirements. All water conservation plans for municipal uses by public drinking water suppliers must include the following elements:
 - (A) a utility profile including, but not limited to, information regarding population and customer data, water use data, water supply system data, and wastewater system data;
 - (B) until May 1, 2005, specification of conservation goals including, but not limited to, municipal per capita water use goals, the basis for the development of such goals, and a time frame for achieving the specified goals;
 - (C) beginning May 1, 2005, specific, quantified five-year and ten-year targets for water savings to include goals for water loss programs and goals for municipal use, in gallons per capita per day. The goals established by a public water supplier under this subparagraph are not enforceable;
 - (D) metering device(s), within an accuracy of plus or minus 5.0% in order to measure and account for the amount of water diverted from the source of supply;
 - (E) a program for universal metering of both customer and public uses of water, for meter testing and repair, and for periodic meter replacement;
 - (F) measures to determine and control unaccounted-for uses of water (for example, periodic visual inspections along distribution lines; annual or monthly audit of the water system to determine illegal connections; abandoned services; etc.);
 - (G) a program of continuing public education and information regarding water conservation;
 - (H) a water rate structure which is not "promotional," i.e., a rate structure which is cost-based and which does not encourage the excessive use of water;
 - (I) a reservoir systems operations plan, if applicable, providing for the

- coordinated operation of reservoirs owned by the applicant within a common watershed or river basin in order to optimize available water supplies; and
- (J) a means of implementation and enforcement which shall be evidenced by:
 - (i) a copy of the ordinance, resolution, or tariff, indicating official adoption of the water conservation plan by the water supplier; and
 - (ii) a description of the authority by which the water supplier will implement and enforce the conservation plan; and
- (K) documentation of coordination with the regional water planning groups for the service area of the public water supplier in order to ensure consistency with the appropriate approved regional water plans.
- (2) Additional content requirements. Water conservation plans for municipal uses by public drinking water suppliers serving a current population of 5,000 or more and/or a projected population of 5,000 or more within the next ten years subsequent to the effective date of the plan must include the following elements:
 - (A) a program of leak detection, repair, and water loss accounting for the water transmission, delivery, and distribution system in order to control unaccounted-for uses of water;
 - (B) a record management system to record water pumped, water deliveries, water sales, and water losses which allows for the desegregation of water sales and uses into the following user classes:
 - (i) residential;
 - (ii) commercial;
 - (iii) public and institutional; and
 - (iv) industrial;
 - (C) a requirement in every wholesale water supply contract entered into or renewed after official adoption of the plan (by either ordinance, resolution, or tariff), and including any contract extension, that each successive wholesale customer develop and implement a water conservation plan or water conservation measures using the applicable elements in this chapter. If the customer intends to resell the water, then the contract between the initial supplier and customer must provide that the contract for the resale of the water must have water conservation requirements so that each successive customer in the resale of the water will be required to implement water conservation measures in accordance with the provisions of this chapter.
- (3) Additional conservation strategies. Any combination of the following strategies shall be selected by the water supplier, in addition to the minimum requirements in paragraphs (1) and (2) of this subsection, if they are necessary to achieve the stated water conservation goals of the plan. The commission may require that any of the following strategies be implemented by the water supplier if the commission determines that the strategy is necessary to achieve the goals of the

water conservation plan:

- (A) conservation-oriented water rates and water rate structures such as uniform or increasing block rate schedules, and/or seasonal rates, but not flat rate or decreasing block rates;
- (B) adoption of ordinances, plumbing codes, and/or rules requiring waterconserving plumbing fixtures to be installed in new structures and existing structures undergoing substantial modification or addition;
- (C) a program for the replacement or retrofit of water-conserving plumbing fixtures in existing structures;
- (D) reuse and/or recycling of wastewater and/or graywater;
- (E) a program for pressure control and/or reduction in the distribution system and/or for customer connections;
- (F) a program and/or ordinance(s) for landscape water management;
- (G) a method for monitoring the effectiveness and efficiency of the water conservation plan; and
- (H) any other water conservation practice, method, or technique which the water supplier shows to be appropriate for achieving the stated goal or goals of the water conservation plan.
- (b) A water conservation plan prepared in accordance with 31 TAC §363.15 (relating to Required Water Conservation Plan) of the Texas Water Development Board and substantially meeting the requirements of this section and other applicable commission rules may be submitted to meet application requirements in accordance with a memorandum of understanding between the commission and the Texas Water Development Board.
- (c) Beginning May 1, 2005, a public water supplier for municipal use shall review and update its water conservation plan, as appropriate, based on an assessment of previous five-year and ten-year targets and any other new or updated information. The public water supplier for municipal use shall review and update the next revision of its water conservation plan not later than May 1, 2009, and every five years after that date to coincide with the regional water planning group.

Source Note: The provisions of this §288.2 adopted to be effective May 3, 1993, 18 TexReg 2558; amended to be effective February 21, 1999, 24 TexReg 949; amended to be effective April 27, 2000, 25 TexReg 3544; amended to be effective October 7, 2004, 29 TexReg 9384.

APPENDIX C TCEQ WATER UTILITY PROFILE

APPENDIX C

Water Utility Profile Based on TCEQ Format (Updated to Match November 5, 2004 TCEQ Profile)

The purpose of the Water Utility Profile is to assist an applicant with water conservation plan development and to ensure that important information and data be considered when preparing your water conservation plan and goals. You may contact the Municipal Water Conservation Unit of the TWDB at 512-936-2391 for assistance, or the Resource Protection Team at 512-239-4691 if submitted to the TCEQ. You may also contact Denise Hickey of NTMWD at 972/442-5405 or Tom Gooch of Freese and Nichols at 817/735-7300.

Name of Entity:	City of Wylie		Ť		
Address & Zip:	949 Henlsey Lane				
Telephone Number:	(972) 442-7588				
Fax Number:	(972) 442-8198				
Form Completed by:	Albert Garza		•		
Title:	Water Quality Specialist				
Signature:					
Date:				03/27/2009	
Phone Number:	ND CUSTOMER DATA			,	
A. Population and					
	a copy of your service-area ma	p and, if applicable, a	copy of your Certi	ficate of Convenience and Nece	essity
2. Service area	size (square miles):	<u>18</u>			
Current popu	ılation of service area:	<u>40.941</u>	as of year	<u>2008</u>	
Current popu	ulation served by utility:				
water:	<u>35,280</u>				
wastewater:	<u>40,941</u>				

5. Population served by water utility for the previous five years. (Please list by year in ascending order.):

Year	Population
2004	27,093
2005	31,710
2006	33,441
2007.	34,833
2008	35,280

6. Projected population for service area in the following decades:

Year	Population
2010	41,300
2015	48,400
2020	55,600
2025	60,000
2030	62,500
2035	65,000

7. List source/method for the calculation of current and projected population: NTMWD

B. Active Connections

1. Current number of active connections.

Check whether multi-family service is counted as Residential x or Commercial x. Current year is: 2008

Treated Water Users	Metered	Non-Metered	Total
Residential	10,356		10,356
Commercial	479		479
Industrial	14		14
Other	49		49
Total	10,898	0	10,898

2. List the net number of new connections per year for most recent three years:

Year	2006	2007	2008
Residential	2,410	2,335	1,922
Commercial	. 44	60	93
Industrial	0	0	1
Other	5	9	1
Total	2,459	2,404	2,017

C. High Volume Customers

List annual water use for the five highest volume customers. (Please indicate if treated or raw water delivery.):

Treated or Use (1,000 gal/yr) Raw Water? Customer 43,203 Treated Global Innovation 12,320 Treated Wylie Ventures Yes Company (South Fork) 11,963 Treated Treated WISD Jr. High #3 11,632 9,411 Nortex Nursey Treated

II. WATER USE DATA FOR SERVICE AREA

A. Water Accounting Data

1. Amount of water use for previous five years (in 1,000 gal):

Please indicate:

Diverted Water

Treated Water

x

Year	2004	2005	2006	2007	2008
January	74,480	79,628	110,541	84,925	104,353
February	65,350	72,553	80,463	77,494	94,476
March	78,480	82,528	97,645	98,698	111,625
April	104,480	109,906	134,109	94,440	117,428
May	124,800	137,194	157,343	104,400	155,993
June	104,180	161,581	180,566	101,243	112,699
July	153,570	177,715	182,268	107,955	212,770
August	159,910	193,683	207,038	172,427	196,442
September	138,290	206,295	159,627	153,112	143,573
October	107,260	164,131	131,054	137,808	146,533
November	80,720	117,758	105,350	124,100	88,932
December	82,250	97,624	89,607	99,705	88,879
Total	1,273,770	1,600,596	1,635,611	1,356,307	1,573,703

Please indicate how the above figures were determined (e.g., from a master meter located at the point of diversion, from a stream, or located at a point where raw water enters the treatment plant, or from water sales)

Master meters located at point of entry

2. Amount of water (in 1,000 gallons) delivered (sold) as recorded by the following account types No Wholesale

Year	Residential	Commercial	Industrial	Bulk	Public/Instituional	Total Sold
2004	762,929	210,160	59,325	3,138	42,634	1,078,186
2005	971,934	262,507	87,029	28,173	73,127	1,422,770
2006	1,019,082	198,426	118,468	34,293	57,231	1,427,500
2007	821,379	165,679	83,438	9,785	54,790	1,135,071
2008	1,070,612	219,958	68,164	9,524	78,248	1,446,506

3. List previous five years records for water loss (the difference between water diverted (or treated) and water delivered (sold)).

Data is calculated in Appendix D on tab "D-4". TWDB requires that the data for this entry be reported in gallons.

Year	Amount (gal.)	%
2004	195,610,000	15.34
2005	135,702,000	8.48
2006	141,760,000	8.67
2007	185,266,000	13.66
2008	70,247,000	4.46

4. Municipal water use for previous five years:

Year	Population	Total Diverted (or Treated) (1,000 gal)
2004	27,093	22,573
2005	31,710	40,480
2006	33,441	19,083
2007	34,833	18,126
2008	35,280	24,530

B. Projected Water Demands

If applicable, attach projected water supply demands for the next ten years using information such as population trends, historical water use, and economic growth in the service area over the next ten years and any additional water supply requirement from such growth.

Year	Projected Demand (Ac- Ft)	Source of data	Additional Water Supply Requirements
2010	7,191	NTMWD	
2015	8,356	NTMWD	
2020	9,521	NTMWD	
2025	10,283	NTMWD	
2030	10,720	NTMWD	
2035	11,157	NTMWD	
-			

III. WATER SUPPLY SYSTEM DATA

A. Water Supply Sources

List all current water supply sources and the amounts authorized with each:

Туре	Source	Amount Available (AF/Y)
Surface Water		
Groundwater		
Contracts	North Texas Municipal Water District (SW)	5283.9
Other		

В.	Treatment and D	istribution Sy	stem						·
	1. Design daily of	capacity of syst	em:		<u>9.3</u>	MGD			
	2. Storage capac	ity:				•			
	Elevated	<u>3</u>	MG						
	Ground	<u>3.1</u>	MG						
	3. If surface water Yes No _					e plant?			
	4. Please attach a tanks. If possil	_				ber of treatmer	nt plants, wells,	and storage	
	WASTEWATER Wastewater Syst		ГА	. *					
	 Design capaci 		er treatment	plant(s):		. 12	MGD		
	2. Is treated effluchlorination/de							i)	
	Briefly descril treated wastew operator, owne plant(s) and dis-	ater is disposed r, and, if waste	l of. Where water is disc	applicable	, identify trea	tment plant(s)		name and r	

Treatment Plant Name	TCEQ Number	Operator	Owner	Receiving Stream
Wylie Treatment Plant	WQ0010384001	See Comments	NTMWD	Muddy Creek
Muddy Creek Treatment Plant	WQ0014216001	See Comments	NTMWD	Muddy Creek
		,		

B. Wastewater Data for Service Area

- 1. Percent of water service area served by wastewater system:
- 2. Monthly wastewater volume for previous three years (in 1,000 gallons):

Year	2006	2007	2008
January	130	193	135
February	133	119	134
March	160	145	211
April .	119	138	149
May	123	152	137
June	97	199	125
July	102	182	125
August	108	132	133
September	107	135	128
October	127	135	124
November	1,001	119	132
December	140	137	136
Total	2,347	1,784	1,670

<u>99</u>

%

Appendix C1

Definitions of Commonly Used Terms

Conservation - Those practices, techniques, and technologies that reduce the consumption of water, reduce the loss or waste of water, improve the efficiency in the use of water, or increase the recycling and reuse of water so that a water supply is made available for future or alternative uses.

Industrial use - The use of water in processes designed to convert materials of a lower order of value into forms having greater usability and commercial value, commercial fish production, and the development of power by means other than hydroelectric, but does not include agricultural use.

Irrigation - The agricultural use of water for the irrigation of crops, trees, and pastureland, including, but not limited to, golf courses and parks which do not receive water through a municipal distribution system.

Municipal per capita water use - The sum total of water diverted into a water supply system for residential, commercial, and public and institutional uses divided by actual population served.

Municipal use - The use of potable water within or outside a municipality and its environs whether supplied by a person, privately owned utility, political subdivision, or other entity as well as the use of sewage effluent for certain purposes, including the use of treated water for domestic purposes, fighting fires, sprinkling streets, flushing sewers and drains, watering parks and parkways, and recreational purposes, including public and private swimming pools, the use of potable water in industrial and commercial enterprises supplied by a municipal distribution system without special construction to meet its demands, and for the watering of lawns and family gardens.

Municipal use in gallons per capita per day - The total average daily amount of water diverted or pumped for treatment for potable use by a public water supply system. The calculation is made by dividing the water diverted or pumped for treatment for potable use by population served. Indirect reuse volumes shall be credited against total diversion volumes for the purpose of calculating gallons per capita per day for targets and goals.

Pollution - The alteration of the physical, thermal, chemical, or biological quality of, or the contamination of, any water in the state that renders the water harmful, detrimental, or injurious to humans, animal life, vegetation, or property, or to the public health, safety, or welfare, or impairs the usefulness or the public enjoyment of the water for any lawful or reasonable purpose.

Public water supplier - An individual or entity that supplies water to the public for human consumption.

Regional water planning group - A group established by the Texas Water Development Board to prepare a regional water plan under Texas Water Code, '16.053.

Retail public water supplier - An individual or entity that for compensation supplies water to the

public for human consumption. The term does not include an individual or entity that supplies water to itself or its employees or tenants when that water is not resold to or used by others.

Reuse - The authorized use for one or more beneficial purposes of use of water that remains unconsumed after the water is used for the original purpose of use and before that water is either disposed of or discharged or otherwise allowed to flow into a watercourse, lake, or other body of state-owned water.

Water conservation plan - A strategy or combination of strategies for reducing the volume of water withdrawn from a water supply source, for reducing the loss or waste of water, for maintaining or improving the efficiency in the use of water, for increasing the recycling and reuse of water, and for preventing the pollution of water. A water conservation plan may be a separate document identified as such or may be contained within another water management document(s).

Water loss - The difference between water diverted or treated and water delivered (sold). Water loss can result from:

- 1. inaccurate or incomplete record keeping;
- 2. meter error;
- 3. unmetered uses such as firefighting, line flushing, and water for public buildings and water treatment plants;
- 4. leaks: and
- 5. water theft and unauthorized use.

Wholesale public water supplier - An individual or entity that for compensation supplies water to another for resale to the public for human consumption. The term does not include an individual or entity that supplies water to itself or its employees or tenants as an incident of that employee service or tenancy when that water is not resold to or used by others, or an individual or entity that conveys water to another individual or entity, but does not own the right to the water which is conveyed, whether or not for a delivery fee.

If you have any questions on how to fill out this form or about the	
program, please contact us at 512/239-	

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512-239-3282.

APPENDIX D

NTMWD MEMBER CITY AND CUSTOMER ANNUAL WATER CONSERVATION REPORT

APPENDIX D

NTMWD MEMBER CITY AND CUSTOMER WATER CONSERVATION REPORT

Due: March 31 of every year

Entity Reporting: City of Wylie
Filled Out By: Albert Garza
Date Completed: 3/26/2009
Xear Covered: 2008
of Connections 11,760

Recorded Deliveries and Sales by Month (in Million Gallons):

	Deliveries	100			Sales by Category	tegory		
Month	from NTMWD	Supplies	Residential	Commercial	Public/ Institutional	Industrial	Bulk Water	Total
January	104.353		52.995	10.888	3.873	3.374	90.706	71.835
February	94.476		49.053	10.078	3.585	3.123	0.118	65.957
March	111.625		60.364	12.402	4.412	3.843	0.448	81.469
April	117.428		63.931	13.135	4.673	4.070	0.072	85.881
May	155.993		95.323	19.584	196.9	690'9	0.020	127.963
June	112.669		103.665	21.298	7.577	9.600	0.355	139.495
July	212.770		177.640	36.496	12.983	11.310	2.879	241.308
August	196.442		136.527	28.050	9.978	8.692	1.781	185.028
September	143.573		109.031	22.400	696.7	6.942	0.000	146.342
October	146.553		91.258	18.749	0.670	5.810	1.716	124.203
November	88.932		63.876	13.123	4.669	4.067	0.033	85.767
December	88.879		66.949	13.755	4.893	4.263	1.397	91.257
TOTAL	1,573.693	0.000	1,070.611	219.957	78.248	68.163	9.523	1,446.503

Unaccounted Water (Million Gallons):

Office of a control of the control o	
NTMWD Deliveries	1,573.693 from Table above
Other Supplies	0.000 from Table above
Total Supplies	1,573.693 from Table above
Total Sales	1,446.503 from Table above
Estimated Fire Use	0.059 estimated from best available data
Estimated Line Flushing Use	56.882 estimated from best available data
Unaccounted Water	70.249
% Unaccounted	4.46%
Goal for % Unaccounted	12.00%

Per Capita Municipal Use (Gallons per person per day)

35,280 please describe source of population estimate Reference RG-195 Rules and Regulations for Pubic 1,496.006 from Table above (NTMWD deliveries+ other supplies - industrial sales - municipal sales - other sales) apartment complex would be equal the number of determined by multipling the number of service connection by three. Service connections in an Water Systems 290.38(10). Population was 116 10-year Per Capita Goal (119) 5-year Per Capita Goal (119) Per Capita Use (gpcd) Estimated Population Municipal Use (MG)

Recorded Wholesale Sales by Month (i	Sales by Month	(in Million Gallons):	llons):			indiviual apartment units.	nent units.	
Month	Sales to	Sales to	Sales to	Sales to	Sales to	Sales to	Sales to	Total Wholesale Sales
January								0.000
February								0.000
March								0.000
April								0.000
Mav								0.000
June								0.000
July								0.000
August								0.000
Sentember								0.000
October								0.000
November								0.000
December								0000
TOTAL	0000	0.000	0.000	0000	0.000	0.000	0.000	0.000

Information on Wholesale Customers:

Estimated

Population Customer

Unusual Circumstances (use additional sheets if necessary):
On June 6, 2008 the City of Wylie and North Texas Municipal Water District (NTMWD) representatives met at Nortex and Newport Harbor pump stations to conduct a volumetric test. Upon completion of the test at both pump stations, it was determined that NTMWD meters were out of calibration accuracy of more than ±2%, Nortex pump station was at plus 30% and Newport Harbor at plus 10% out of calibration. On July 29, 2008 the City of Wylie also had ADS Environmental Services conducted a Pitometer test for accuracy on the venturi meter at Wylie-1, the results of the Pitometer test showed the meter to be over-registering by 9%.
Progress in Implementation of Conservation Plan (use additional sheets if necessary):
The City of Wylie is currently keeping track of all unmetered water through out the City by monitoring the following: Firefighting, Dead End Main Flushing, Street Cleaning, Water Main Breaks and Sewer Cleaning. Conservation Plan is scheduled for Council approval on 4-14-09
Conservation measures planned for next year (use additional sheets if necessary):
Public education by posting information on City website, insert in utility bill, and local news letter. Staff will educate the public as needed when wasteful practices are observed, Enforcement if necessary.

|--|

Historical Water Use Data for The City of Wylie

Year Co		_	DOMOVE OF P		_						
	Connections	Estimated Population	from	Other Supplies	Residential Commercial	Commercial	rial Public/ Industrial Wholesale Bu	Industrial	Industrial Wholesale	Bulk Sale	Total
			(MG)	(MG)			Institutional				
1990											0.000
1991											0.000
1992											0.000
1993											0.000
1994											0.000
1995											0.000
1996											0.000
1997											0.000
1998											0.000
1999											0.000
2000											0.000
2001											0.000
2002				1							0.000
2003											
2004	9,031	27,093	1,274.770		762.929	210.160	42.634	59.325		3.138	
2005	10,570		1,600.599		971.934					28.178	
2006	11,052				1,019.082					34.293	
2007	11,147				821.379	165.679	54.790	83,438		9.785	
2008	11,760				1,070.612	219.958	78.248	8 68.164		9.523	1,44
2009			i								0.000
2010											0.000

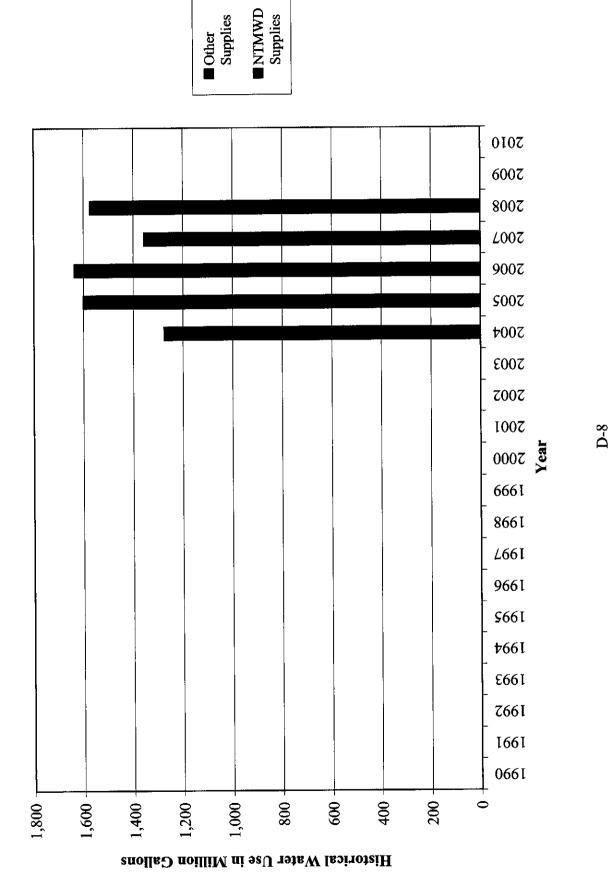
Historical Per Capita Use Data and Unaccounted Water for The City of Wylie

		In-City	Per Canita	Deliveries				Estimated		
7007	Estimated	Municipal		from	Other	Total	Estimated Fire Use	Line	Unaccounted	%
ıesı	Population	Use (MG)	Use (gpcd)	NTMWD (MG)	(MG)	Sales (MG)	(MG)	Flushing (MG)	(MG)	Unaccounted
1990		0.000	#DIA/0i	0.000	0.000	0.000			0.000	#DIV/0!
1991		0000	#DIV/0!	0.000	0.000	0.000			0.000	#DIA/0!
1992		0.000	#DIV/0!	0.000	0.000	0.000			0.000	#DIA/0i
1993		0.000	#DIV/0!	0.000	0.000	0000			0.000	
1994		0.000	#DIA/0i	0.000	0.000	0.000			0.000	#DIV/0!
1995		0.000	#DIV/0!	0.000	0000	0.000			0.000	#DIV/0!
1996		0.000	#DIA/0i	0.000	0.000	0.000			0.000	
1997		0.000	#DIV/0!	0.000	0.000	0.000			0.000	#DIV/0!
1998		0.000	#DIV/0!	0000	0.000	0.000			0000	#DIV/0!
1999		0.000	#DIV/0!	0.000	0.000	0.000			0.000	#DIV/0!
2000		0.000	#DIV/0!	0.000	0.000	0.000			0.000	#DIV/0!
2001		0.000	#DIA/0i	0.000	0.000	0.000			0.000	#DIV/0!
2002	ļ	0.000	#DIA/0i	0.000	0000	0.000			0.000	#DIV/0!
2003		0.000	#DIV/0!	0.000	0000	0.000			0.000	#DIV/0!
2004	27,093	1,212.307	123	1,274.770	0.000	1,078.185		0.975	195.610	15.34%
2005	31,710	1,485.393	128	1,600.599	0.000	1,422.774	13.950	28.173	135.702	8.48%
2006			123	1,635.609	0.000	1,427.500	0.039	66.310	141.760	8.67%
2007	33,141	1,263.083	104	1,356.306	0.000	1,135.071	0.033	35.936	185.266	13.66%
2008	35,280	1,496.006	116	1,573.693	0.000	1,446.505	0.059	56.882	70.247	4.46%
2009		0.000	#DIV/0!	0.000	0.000	0.000			0.000	#DIV/0!
2010		0.000	#DIV/0!	0.000	0.000	0.000			0.000	#DIV/0!

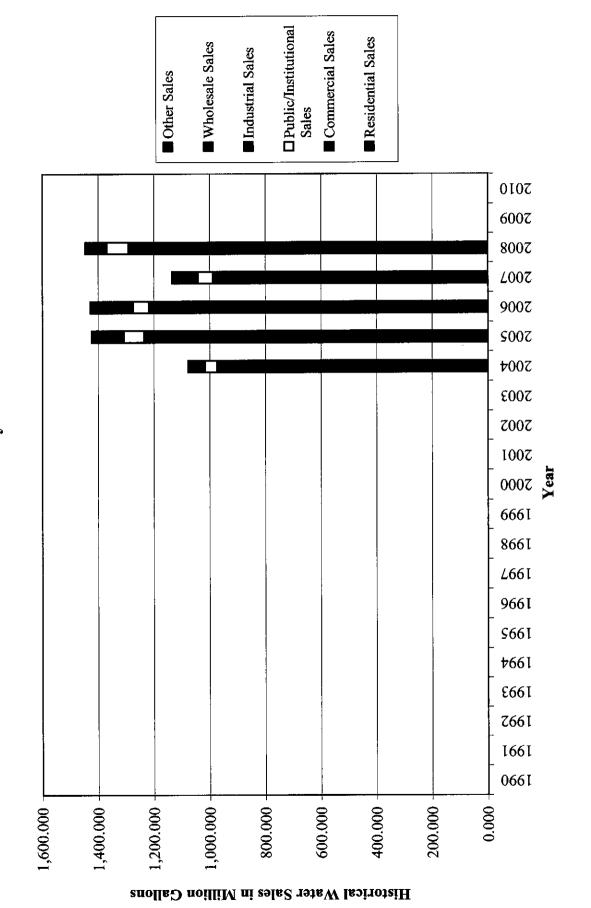
Note: In-city municipal use = total water supplied less sales to industry, wholesale sales and other sales.

5010 5007 8007 2007 9007 2002 **⊅**007 2003 7007 1007 0002 2 D-7 666 I 8661 **L661** 9661 **\$661 7**661 £661 1667 1661 0661 5,000 10,000 0 30,000 25,000 20,000 15,000 40,000 35,000 Estimated Population

Estimated Historical Population

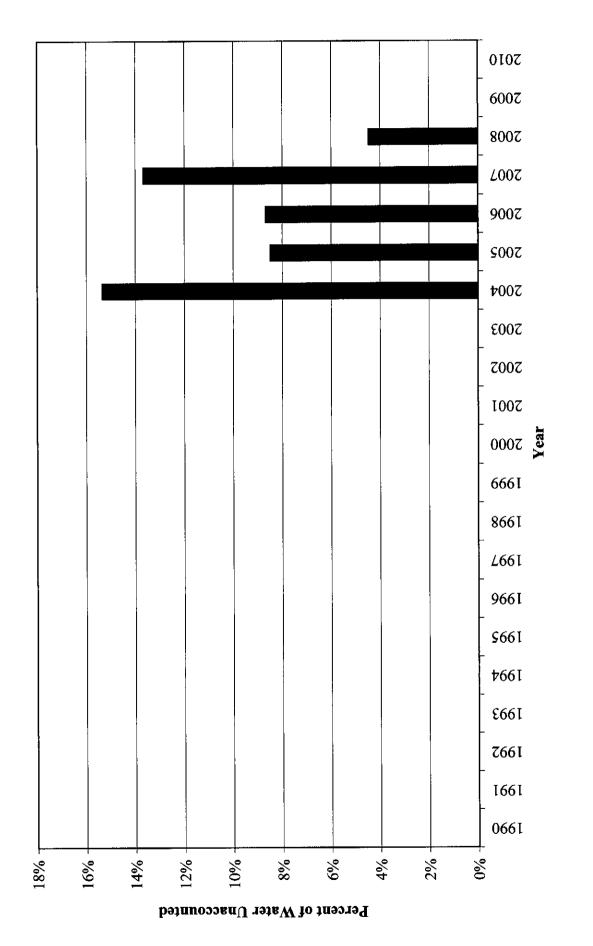


Historical Water Sales by Classification



Z007 700₹ **ear** 2000 D-10 666 I **L661** \$66I 1661 £661 766 I Per Capita Municipal Use in GPCD

Historical Per Capita Municipal Use



D-11

APPENDIX E

CONSIDERATIONS FOR LANDSCAPE WATER MANAGEMENT REGULATIONS

APPENDIX E Considerations for Landscape Water Management Regulations

A. Purpose

The purpose of these proposed landscape water management regulations is to provide a consistent mechanism for preventing the waste of water resources. To enact these provisions, entities must verify legal authority to adopt such provisions, and must promulgate valid rules, orders, or ordinances.

B. Required Measures

The following landscape water conservation measures are required to be included in the landscape management regulations adopted and enforced in this plan.

1. Lawn and Landscape Irrigation Restrictions

- a. A person commits an offense if the person irrigates, waters, or knowingly or recklessly causes or allows the irrigation or watering of any lawn or landscape located on any property owned, leased, or managed by the person between the hours of 10:00 a.m. and 6:00 p.m. from April 1 through October 31 of any year.
- b. A person commits an offense if the person knowingly or recklessly irrigates, waters, or causes or allows the irrigation or watering of lawn or landscape located on any property owned, leased, or managed by that person in such a manner that causes:
 - over-watering lawn or landscape, such that a constant stream of water overflows from the lawn or landscape onto a street or other drainage area; or
 - ii. irrigating lawn or landscape during any form of precipitation or freezing conditions. This restriction applies to all forms of irrigation, including automatic sprinkler systems; or
 - iii. the irrigation of impervious surfaces or other non-irrigated areas, wind driven water drift taken into consideration.
- c. A person commits an offense if the person knowingly or recklessly allows the irrigation or watering of any lawn or landscape located on any property owned, leased, or managed by the person more than two times per week (Sunday through Saturday).

2. Rain and Freeze Sensors and/or ET or Smart Controllers

- a. Any new irrigation system installed on or after May 1, 2009, must be equipped with rain and freeze sensing devices and/or ET or Smart controllers in compliance with state design and installation regulations.
- b. A person commits an offense on property owned, leased or managed if the person:

- i. knowingly or recklessly installs or allows the installation of new irrigation systems in violation of Subsection B.2.a; or
- ii. knowingly or recklessly operates or allows the operation of an irrigation system that does not comply with Subsection B.2.a.

3. Filling or Refilling of Ponds

a. A person commits an offense if the person knowingly or recklessly fills or refills any natural or manmade pond located on any property owned, leased, or managed by the person by introducing any treated water to fill or refill the pond. This does not restrict the filling or maintenance of pond levels by the effect of natural water runoff or the introduction of well water into the pond. A pond is considered to be a still body of water with a surface area of 500 square feet or more.

4. Washing of Vehicles

a. A person commits an offense if the person knowingly or recklessly washes a vehicle without using a water hose with a shut-off nozzle on any property owned, leased, or managed by the person.

5. Enforcement

a. Each entity will develop its own set of penalties for violations of the ordinance, order, or resolution. The ordinance, order, or resolution will designate the responsible official(s) to implement and enforce the landscape water conservation measures.

C. Recommended Measures

1. Lawn and Landscape Irrigation Restrictions

- a. A person commits an offense if the person knowingly or recklessly operates a lawn or irrigation system or device on property that the person owns, leases, or manages that:
 - i. has broken or missing sprinkler head(s); or
 - ii. has not been properly maintained to prevent the waste of water.
- b. All new athletic fields must have separate irrigation systems that are capable of irrigating the playing fields separately from other open spaces.

2. Rain and Freeze Sensors

a. Existing irrigation systems must be retrofitted with similar rain and freeze sensors capable of multiprogramming within 5 years.

D. Variances

 In special cases, variances may be granted to persons demonstrating extreme hardship or need. Variances may be granted under the following circumstances:

- a. the applicant must sign a compliance agreement agreeing to irrigate or water the lawn and/or landscape only in the amount and manner permitted by the variance; and
- b. the variance must not cause an immediate significant reduction to the water supply; and
- c. the extreme hardship or need requiring the variance must relate to the health, safety, or welfare of the person making the request; and
- d. the health, safety, and welfare of the public and the person making the request must not be adversely affected by the requested variance.

2. A variance will be revoked upon a finding that:

- a. the applicant can no longer demonstrate extreme hardship or need; or
- b. the terms of the compliance agreement are violated; or
- c. the health, safety, or welfare of the public or other persons requires revocation.

APPENDIX F LETTERS TO REGION C AND REGION D WATER PLANNING GROUPS

APPENDIX F Letters to Region C and Region D Water Planning Groups

Date
Region C Water Planning Group North Texas Municipal Water District P.O. Box 2408 Wylie, TX 75098
Dear Sir:
Enclosed please find a copy of the recently updated Model Water Conservation Plan for the Member Cities and Customers of the North Texas Municipal Water District. I am submitting a copy of this model plan to the Region C Water Planning Group in accordance with the Texas Water Development Board and Texas Commission on Environmental Quality rules. The Board of the North Texas Municipal Water District adopted the updated model plan on, 2008.
Sincerely,
Jim Parks North Texas Municipal Water District

Date

Mr. Jim Thompson Chair, Region D Water Planning Group P.O. Box 1107 Atlanta, TX 75551

Dear Mr. Thompson:

Enclosed please find a copy of the recently updated Model Water Conservation Plan for the Member Cities and Customers of the North Texas Municipal Water District. I am submitting a copy of this model plan to the Region D Water Planning Group in accordance with the Texas Water Development Board and Texas Commission on Environmental Quality rules. The Board of the North Texas Municipal Water District adopted the updated model plan on ________, 2008.

Sincerely,

Jim Parks
Executive Director
North Texas Municipal Water District

APPENDIX G ADOPTION OF WATER CONSERVATION PLAN

APPENDIX G Adoption of Water Conservation Plan

Municipal Ordinance Adopting Water Conservation Plan

Ordinance No
AN ORDINANCE ADOPTING A WATER CONSERVATION PLAN FOR THE CITY OF TO PROMOTE RESPONSIBLE USE OF WATER AND TO PROVIDE FOR PENALTIES AND/OR THE DISCONNECTION OF WATER SERVICE FOR NONCOMPLIANCE WITH THE PROVISIONS OF THE WATER CONSERVATION PLAN.
WHEREAS, the City of, Texas (the "City"), recognizes that the amount of water available to its water customers is limited; and
WHEREAS, the City recognizes that due to natural limitations, drought conditions, system failures and other acts of God which may occur, the City cannot guarantee an uninterrupted water supply for all purposes at all times; and
WHEREAS, the Water Code and the regulations of the Texas Commission on Environmental Quality (the "Commission") require that the City adopt a Water Conservation Plan; and
WHEREAS, the City has determined an urgent need in the best interest of the public to adopt a Water Conservation Plan; and
WHEREAS, pursuant to Chapter 54 of the Local Government Code, the City is authorized to adopt such Ordinances necessary to preserve and conserve its water resources; and
WHEREAS, the City Council of the City of desires to adopt the North Texas Municipal Water District (the "NTMWD") Model Water Conservation Plan as official City policy for the conservation of water.
NOW THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF THAT:

Section 1. The City Council hereby approves and adopts the NTMWD Model Water Conservation Plan (the "Plan"), attached hereto as Addendum A, as if recited verbatim herein. The City commits to implement the requirements and procedures set forth in the adopted Plan.

Section 2. Any customer, defined pursuant to 30 Tex. Admin. Code Chapter 291, failing to comply with the provisions of the Plan shall be subject to a fine of up to two thousand dollars (\$2,000.00) and/or discontinuance of water service by the City. Proof of a culpable mental state is not required for a conviction of an offense under this section. Each day a customer fails to comply with the Plan is a separate violation. The City's authority to seek injunctive or other civil relief available under the law is not limited by this section.

Section 3. The City Council does hereby find and declare that sufficient written notice of the date, hour, place and subject of the meeting adopting this Ordinance was posted at a designated place convenient to the public for the time required by law preceding the meeting, that such place of posting was readily accessible at all times to the general public, and that all of the foregoing was done as required by law at all times during which this Ordinance and the subject matter thereof has been discussed, considered and formally acted upon. The City Council further ratifies, approves and confirms such written notice and the posting thereof.

Section 4. Should any paragraph, sentence, clause, phrase or word of this Ordinance be declared unconstitutional or invalid for any reason, the remainder of this Ordinance shall not be affected.

Section 5. The City Manager or his designee is hereby directed to file a copy of the Plan and this Ordinance with the Commission in accordance with Title 30, Chapter 288 of the Texas Administrative Code.

Section 6. The City Secretary is hereby authorized and directed to cause publication of the descriptive caption of this ordinance as an alternative method of publication provided by law.

by law.		-
Section 7. {If Applicable} Ordinance No repealed.	, adopted on _	, is hereby
Passed by the City Council on this day of _	,	
Mayor	_	
Attest:		

City Secretary

Municipal Utility District Order Adopting Water Conservation Plan

Order No
AN ORDER ADOPTING A WATER CONSERVATION PLAN FOR THE MUNICIPAL UTILITY DISTRICT TO PROMOTE THE RESPONSIBLE USE OF WATER AND TO PROVIDE FOR PENALTIES AND/OR THE DISCONNECTION OF WATER SERVICE FOR NONCOMPLIANCE WITH THE PROVISIONS OF THE WATER CONSERVATION PLAN.
WHEREAS, the Municipal Utility District (the "District"), recognizes that the amount of water available to its water customers is limited; and
WHEREAS, the District recognizes that due to natural limitations, drought conditions, system failures and other acts of God which may occur, the District cannot guarantee an uninterrupted water supply for all purposes at all times; and
WHEREAS, the Water Code and the regulations of the Texas Commission on Environmental Quality (the "Commission") require that the District adopt a Water Conservation Plan; and
WHEREAS, the District has determined an urgent need in the best interest of the public to adopt a Water Conservation Plan; and
WHEREAS, pursuant to Chapter 49 of the Water Code, the District is authorized to adopt such policies necessary to accomplish the purposes for which it was created including but not limited to the preservation and conservation of water resources; and
WHEREAS, the Board of Directors of the District desires to adopt the North Texas Municipal Water District (the "NTMWD") Model Water Conservation Plan as official District policy for the conservation of water.
NOW THEREFORE, BE IT ORDERED BY THE BOARD OF DIRECTORS OF THE MUNICIPAL UTILITY DISTRICT THAT:

Section 1. The Board of Directors hereby approves and adopts the NTMWD Model Water Conservation Plan (the "Plan"), attached hereto as Addendum A, as if recited verbatim herein. The District commits to implement the requirements and procedures set forth in the adopted Plan.

Section 2. Any customer, defined pursuant to 30 Tex. Admin. Code Chapter 291, failing to comply with the provisions of the Plan shall be subject to a monetary fine as allowed by law, and/or discontinuance of water service by the District. Proof of a culpable mental

state is not required for a conviction of an offense under this section. Each day a customer fails to comply with the Plan is a separate violation. The District's authority to seek injunctive or other civil relief available under the law is not limited by this section.

Section 3. The Board of Directors does hereby find and declare that sufficient written notice of the date, hour, place and subject of the meeting adopting this Order was posted at a designated place convenient to the public for the time required by law preceding the meeting, that such place of posting was readily accessible at all times to the general public, and that all of the foregoing was done as required by law at all times during which this Order and the subject matter thereof has been discussed, considered and formally acted upon. The Board of Directors further ratifies, approves and confirms such written notice and the posting thereof.

Section 4. The General Manager or his designee is hereby directed to file a copy of the Plan and this Ordinance with the Commission in accordance with Title 30, Chapter 288 of the Texas Administrative Code.

Section 5. Should any paragraph, sentence, clause, phrase or word of this Order be declared unconstitutional or invalid for any reason, the remainder of this Order shall not be affected.

Section 6. repealed.	{If Applicable}	Order No	, adopted on _	, is hereby
Approved and	adopted by the l	Board of Director	rs on this day of	·,
President, Boa	ard of Directors			
Attest:				
Secretary				

Special Utility District Order Adopting Water Conservation Plan

Order No
AN ORDER ADOPTING A WATER CONSERVATION PLAN FOR THE SPECIAL UTILITY DISTRICT TO PROMOTE THE RESPONSIBLE USE OF WATER AND TO PROVIDE FOR PENALTIES AND/OR THE DISCONNECTION OF WATER SERVICE FOR NONCOMPLIANCE WITH THE PROVISIONS OF THE WATER CONSERVATION PLAN.
WHEREAS, the Special Utility District (the "District"), recognizes that the amount of water available to its water customers is limited; and
WHEREAS, the District recognizes that due to natural limitations, drought conditions, system failures and other acts of God which may occur, the District cannot guarantee an uninterrupted water supply for all purposes at all times; and
WHEREAS, the Water Code and the regulations of the Texas Commission on Environmental Quality (the "Commission") require that the District adopt a Water Conservation Plan; and
WHEREAS, the District has determined an urgent need in the best interest of the public to adopt a Water Conservation Plan; and
WHEREAS, pursuant to Chapter 65 of the Water Code, the District is authorized to adopt such policies necessary to accomplish the purposes for which it was created, including but not limited to the preservation and conservation of water resources; and
WHEREAS, the Board of Directors of the District desires to adopt the North Texas Municipal Water District (the "NTMWD") Model Water Conservation Plan as official District policy for the conservation of water.
NOW THEREFORE, BE IT ORDERED BY THE BOARD OF DIRECTORS OF THE SPECIAL UTILITY DISTRICT THAT:

Section 1. The Board of Directors hereby approves and adopts the NTMWD Model Water Conservation Plan (the "Plan"), attached hereto as Addendum A, as if recited verbatim herein. The District commits to implement the requirements and procedures set forth in the adopted Plan.

Section 2. Any customer, defined pursuant to 30 Tex. Admin. Code Chapter 291, failing to comply with the provisions of the Plan shall be subject to a monetary fine as allowed by law, and/or discontinuance of water service by the District. Proof of a culpable mental state is not required for a conviction of an offense under this section. Each day a

customer fails to comply with the Plan is a separate violation. The District's authority to seek injunctive or other civil relief available under the law is not limited by this section.

Section 3. The Board of Directors does hereby find and declare that sufficient written notice of the date, hour, place and subject of the meeting adopting this Order was posted at a designated place convenient to the public for the time required by law preceding the meeting, that such place of posting was readily accessible at all times to the general public, and that all of the foregoing was done as required by law at all times during which this Order and the subject matter thereof has been discussed, considered and formally acted upon. The Board of Directors further ratifies, approves and confirms such written notice and the posting thereof.

Section 4. The General Manager or his designee is hereby directed to file a copy of the Plan and this Ordinance with the Commission in accordance with Title 30, Chapter 288 of the Texas Administrative Code.

Section 5. Should any paragraph, sentence, clause, phrase or word of this Order be declared unconstitutional or invalid for any reason, the remainder of this Order shall not be affected.

у
•

Secretary

Water Supply Corporation Resolution Adopting Water Conservation Plan

Resolution No		
A RESOLUTION ADOPTING A WATER CONSERVATION PLAN FOR THE WATER SUPPLY CORPORATION TO PROMOTE THE RESPONSIBLE USE OF WATER AND TO PROVIDE FOR PENALTIES AND/OR THE DISCONNECTION OF WATER SERVICE FOR NONCOMPLIANCE WITH THE PROVISIONS OF THE WATER CONSERVATION PLAN.		
WHEREAS, the Water Supply Corporation (the "WSC"), recognizes that the amount of water available to its water customers is limited; and		
WHEREAS, the WSC recognizes that due to natural limitations, drought conditions, system failures and other acts of God which may occur, the WSC cannot guarantee an uninterrupted water supply for all purposes at all times; and		
WHEREAS, the Water Code and the regulations of the Texas Commission on Environmental Quality (the "Commission") require that the WSC adopt a Water Conservation Plan; and		
WHEREAS, the WSC has determined an urgent need in the best interest of the public to adopt a Water Conservation Plan; and		
WHEREAS, pursuant to Chapter 67 of the Water Code, the WSC is authorized to adopt such policies necessary to preserve and conserve its water resources; and		
WHEREAS, the Board of Directors of the WSC desires to adopt the North Texas Municipal Water District (the "NTMWD") Model Water Conservation Plan as official WSC policy for the conservation of water.		

Section 1. The Board of Directors hereby approves and adopts the NTMWD Model Water Conservation Plan (the "Plan"), attached hereto as Addendum A, as if recited verbatim herein. The WSC commits to implement the requirements and procedures set forth in the adopted Plan.

NOW THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF

THE WATER SUPPLY CORPORATION THAT:

Section 2. Any customer, defined pursuant to 30 Tex. Admin. Code Chapter 291, failing to comply with the provisions of the Plan shall be subject to a monetary fine as allowed by law, and/or discontinuance of water service by the WSC. Proof of a culpable mental state is not required for a conviction of an offense under this section. Each day a

customer fails to comply with the Plan is a separate violation. The WSC's authority to seek injunctive or other civil relief available under the law is not limited by this section.

Section 3. The Board of Directors does hereby find and declare that sufficient written notice of the date, hour, place and subject of the meeting adopting this Resolution was posted at a designated place convenient to the public for the time required by law preceding the meeting, that such place of posting was readily accessible at all times to the general public, and that all of the foregoing was done as required by law at all times during which this Resolution and the subject matter thereof has been discussed, considered and formally acted upon. The Board of Directors further ratifies, approves and confirms such written notice and the posting thereof.

Section 4. The General Manager or his designee is hereby directed to file a copy of the Plan and this Ordinance with the Commission in accordance with Title 30, Chapter 288 of the Texas Administrative Code. Further, the Board of Directors hereby authorizes the General Manager or his designee to file an amendment to the WSC's tariff to incorporate the Plan therein.

Section 5. Should any paragraph, sentence, clause, phrase or word of this Resolution be declared unconstitutional or invalid for any reason, the remainder of this Resolution shall not be affected.

Section 6. {If Applicable} Resolution No repealed.	, adopted on	, is hereby
Approved and adopted by the on this	3 day of,	
President, Board of Directors		
Attest:		

Secretary

APPENDIX H ILLEGAL WATER CONNECTIONS AND THEFT OF WATER

APPENDIX H Illegal Water Connections and Theft of Water

Municipal Ordinance Pertaining to Illegal Water Connections and Theft of Water

Ordinance No
AN ORDINANCE PERTAINING TO ILLEGAL WATER CONNECTIONS AND/OR THE THEFT OF WATER RELATED TO THE WATER SUPPLY FOR THE CITY OF
WHEREAS, the City of, Texas (the "City") recognizes that the amount of water available to its water customers is limited; and
WHEREAS, pursuant to Chapter 54 of the Local Government Code, the City is authorized to adopt such policies necessary to preserve and conserve available water supplies; and
WHEREAS, the City seeks to adopt an ordinance pertaining to illegal water connections and theft of water.
NOW THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF THAT:
Section 1. The City Council hereby approves and adopts this Ordinance as described

- d herein.
- Section 2. A person commits an offense of theft of water by any of the following actions:
 - (a) A person may not knowingly tamper, connect to, or alter any component of the City's water system including valves, meters, meter boxes, lids, hydrants, lines, pump stations, ground storage tanks, and elevated storage tanks. This shall include direct or indirect efforts to initiate or restore water service without the approval of the City.
 - (b) If, without the written consent of the City Manager or the City Manager's designee, the person knowingly causes, suffers or allows the initiation or restoration of water service to the property after termination of service(s). For purposes of this section, it shall be assumed that the owner, occupant, or person in control of the property caused, suffered, or allowed the unlawful initiation or restoration of service(s).

- (c) A person may not knowingly make or cause a false report to be made to the City of a reading of a water meter installed for metered billing.
- (d) A person commits a separate offense each day that the person performs an act prohibited by this section or fails to perform an act required by this section.

Section 3. An offense under this Ordinance is a Class C misdemeanor punishable by a fine of up to two thousand dollars (\$2,000.00) and/or discontinuance of water service by the City.

Section 4. The City Council does hereby find and declare that sufficient written notice of the date, hour, place and subject of the meeting considering this Ordinance was posted at a designated place convenient to the public for the time required by law preceding the meeting, that such place of posting was readily accessible at all times to the general public, and that all of the foregoing was done as required by law at all times during which this Ordinance, and the subject matter thereof, has been discussed, considered and formally acted upon. The City Council further ratifies, approves and confirms such written notice and the posting thereof.

Section 5. Should any paragraph, sentence, clause, phrase or word of this Ordinance be declared unconstitutional or invalid for any reason, the remainder of this Ordinance shall not be affected.

Section 6. The City Secretary is hereby authorized and directed to cause publication of the descriptive caption of this ordinance as an alternative method of publication provided by law.

by law.
Section 7. {If Applicable} Ordinance No, adopted on, is hereby repealed.
Passed by the City Council on this day of,
Mayor
Attest:

City Secretary

Municipal Utility District Order Pertaining to Illegal Water Connections and Theft of Water

Order No.		
AN ORDER PERTAINING TO ILLEGAL WATER CONNECTIONS AND/OR THE THEFT OF WATER RELATED TO THE WATER SUPPLY FOR THE MUNICIPAL UTILITY DISTRICT.		
WHEREAS, the Municipal Utility District (the "District"), recognizes that the amount of water available to its water customers is limited; and		
WHEREAS, pursuant to Chapter 49 of the Water Code, the District is authorized to adopt such policies necessary to accomplish the purposes for which it was created, including but not limited to the preservation and conservation of available water supplies; and		
WHEREAS, the District seeks to adopt an order pertaining to illegal water connections and theft of water.		
NOW THEREFORE, BE IT ORDERED BY THE BOARD OF DIRECTORS OF THE MUNICIPAL UTILITY DISTRICT THAT:		
G. et al. III - D 1 - C. Diverte up househor ammorron and adopte this Order as described		

- Section 1. The Board of Directors hereby approves and adopts this Order as described herein.
- Section 2. A person commits an offense of theft of water by any of the following actions:
 - (a) A person may not knowingly tamper, connect to, or alter any component of the District's water system including valves, meters, meter boxes, lids, hydrants, lines, pump stations, ground storage tanks, and elevated storage tanks. This shall include direct or indirect efforts to initiate or restore water service without the approval of the District.
 - (b) If, without the written consent of the District, the person knowingly causes, suffers or allows the initiation or restoration of water service to the property after termination of service(s). For purposes of this section, it shall be assumed that the owner, occupant, or person in control of the property caused, suffered, or allowed the unlawful initiation or restoration of service(s).
 - (c) A person may not knowingly make or cause a false report to be made to the District of a reading of a water meter installed for metered billing.
 - (d) A person commits a separate offense each day that the person performs an act prohibited by this section or fails to perform an act required by this section.

Section 3. An offense under this Order is punishable in accordance with the District's rules and policies regarding rates and may result in disconnection of service.

Section 4. The Board of Directors does hereby find and declare that sufficient written notice of the date, hour, place and subject of the meeting considering this Order was posted at a designated place convenient to the public for the time required by law preceding this meeting, that such place of posting was readily accessible at all times to the general public, and that all of the foregoing was done as required by law at all times during which this Order, and the subject matter thereof has been discussed, considered and formally acted upon. The Board of Directors further ratifies, approves and confirms such written notice and the posting thereof.

Section 5. Should any paragraph, sentence, clause, phrase or word of this Order be declared unconstitutional or invalid for any reason, the remainder of this Order shall not be affected.
Section 6. {If Applicable} Order No, adopted on, is hereby repealed.
Approved and adopted by the Board of Directors on this day of
President, Board of Directors
Attest:
Secretary

Special Utility District Order Pertaining to Illegal Water Connections and Theft of Water

Order No
AN ORDER PERTAINING TO ILLEGAL WATER CONNECTIONS AND/OR THE THEFT OF WATER RELATED TO THE WATER SUPPLY FOR THE SPECIAL UTILITY DISTRICT.
WHEREAS, the Special Utility District (the "District"), recognizes that the amount of water available to its water customers is limited; and
WHEREAS, pursuant to Chapter 65 of the Water Code, the District is authorized to adopt such policies necessary to preserve and conserve available water supplies; and
WHEREAS, the District seeks to adopt an order pertaining to illegal water connections and theft of water.
NOW THEREFORE, BE IT ORDERED BY THE BOARD OF DIRECTORS OF THE SPECIAL UTILITY DISTRICT THAT:

- Section 1. The Board of Directors hereby approves and adopts this Order as described herein.
- Section 2. A person commits an offense of theft of water by any of the following actions:
 - (a) A person may not knowingly tamper, connect to, or alter any component of the District's water system including valves, meters, meter boxes, lids, hydrants, lines, pump stations, ground storage tanks, and elevated storage tanks. This shall include direct or indirect efforts to initiate or restore water service without the approval of the District.
 - (b) If, without the written consent of the District, the person knowingly causes, suffers or allows the initiation or restoration of water service to the property after termination of service(s). For purposes of this section, it shall be assumed that the owner, occupant, or person in control of the property caused, suffered, or allowed the unlawful initiation or restoration of service(s).
 - (c) A person may not knowingly make or cause a false report to be made to the District of a reading of a water meter installed for metered billing.
 - (d) A person commits a separate offense each day that the person performs an act prohibited by this section or fails to perform an act required by this section.

Section 3. An offense under this Order is punishable in accordance with the District's rules and policies regarding rates and may result in disconnection of service.

Section 4. The Board of Directors does hereby find and declare that sufficient written notice of the date, hour, place and subject of the meeting considering this Order was posted at a designated place convenient to the public for the time required by law preceding this meeting, that such place of posting was readily accessible at all times to the general public, and that all of the foregoing was done as required by law at all times during which this Order, and the subject matter thereof has been discussed, considered and formally acted upon. The Board of Directors further ratifies, approves and confirms such written notice and the posting thereof. Section 5. Should any paragraph, sentence, clause, phrase or word of this Order be declared unconstitutional or invalid for any reason, the remainder of this Order shall not be affected. {If Applicable} Order No. _____, adopted on _____, is hereby Section 6. repealed. Approved and adopted by the Board of Directors on this ____ day of _____, ____. President, Board of Directors Attest:

Secretary

Water Supply Corporation Resolution Pertaining to Illegal Water Connections and Theft of Water

	Resolution No.
AND/OR THE THEF	PERTAINING TO ILLEGAL WATER CONNECTIONS TO F WATER RELATED TO THE WATER SUPPLY FOR WATER SUPPLY CORPORATION.
	Water Supply Corporation (the "WSC"), recognizes that the ble to its water customers is limited; and
	to Chapter 67 of the Water Code, the WSC is authorized to adopt to preserve and conserve available water supplies; and
WHEREAS, the WSC theft of water.	seeks to adopt an order pertaining to illegal water connections and
	, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF TER SUPPLY CORPORATION THAT:

- Section 1. The Board of Directors hereby approves and adopts this Resolution as described herein.
- Section 2. A person commits an offense of theft of water by any of the following actions:
 - (a) A person may not knowingly tamper, connect to, or alter any component of the WSC's water system including valves, meters, meter boxes, lids, hydrants, lines, pump stations, ground storage tanks, and elevated storage tanks. This shall include direct or indirect efforts to initiate or restore water service without the approval of the WSC.
 - (b) If, without the written consent of the WSC, the person knowingly causes, suffers or allows the initiation or restoration of water service to the property after termination of service(s). For purposes of this section, it shall be assumed that the owner, occupant, or person in control of the property caused, suffered, or allowed the unlawful initiation or restoration of service(s).
 - (c) A person may not knowingly make or cause a false report to be made to the WSC of a reading of a water meter installed for metered billing.
 - (d) A person commits a separate offense each day that the person performs an act prohibited by this section or fails to perform an act required by this section.

Section 3. An offense under this Resolution is punishable in accordance with the WSC's rules and policies regarding rates, including its approved tariff, and may result in disconnection of service.

Section 4. The Board of Directors does hereby find and declare that sufficient written notice of the date, hour, place and subject of the meeting considering this Resolution was posted at a designated place convenient to the public for the time required by law preceding this meeting, that such place of posting was readily accessible at all times to the general public, and that all of the foregoing was done as required by law at all times during which this Resolution, and the subject matter thereof has been discussed, considered and formally acted upon. The Board of Directors further ratifies, approves and confirms such written notice and the posting thereof.

Section 5. Should any paragraph, sentence, clause, phrase or word of this Resolution be declared unconstitutional or invalid for any reason, the remainder of this Resolution shall not be affected.

not be affected.	
Section 6. {If Applicable} Resolution No, adopted on, is her repealed.	eby
Approved and adopted by the Board of Directors on this day of	
President, Board of Directors	
Attest:	
Secretary	

APPENDIX I TCEQ WATER CONSERVATION IMPLEMENTATION REPORT

APPENDIX I TCEQ Water Conservation Implementation Report



Texas Commission on Environmental Quality

Water Conservation Implementation Report

This report must be completed by entities that are required to submit a water conservation plan to the TCEQ in accordance with Title 30 Texas Administrative Code, Chapter 288. Please complete this report and submit it to the TCEQ. If you need assistance in completing this form, please contact the Resource Protection Team in the Water Supply Division at (512) 239-4691.

Nan Add	ne: ress:						
	phone Number:	()	Fax: ()				
	n Completed By:		Title:				
Sign	ature:	Date:					
I.	WATER USES						
,	Indicate the type(s) of water uses (exar	mple: municipal, industrial, or agricultural).				
		Use					
		Use					
II.	Provide the water		res and the dates the measures were implemented. easure:				
	_	d:ater Conservation Mo					
	Date Implements						

Description of Water Conservation Measure:	
Date Implemented:	
Description of Water Conservation Measure:	
Date Implemented:	
Description of Water Conservation Measure:	
Date Implemented:	
Description of Water Conservation Measure:	
Date Implemented:	
Description of Water Conservation Measure:	
Date Implemented:	

Da	te Implemented:
De:	scription of Water Conservation Measure:
 Da	te Implemented:
De	scription of Water Conservation Measure:
 Da	te Implemented:
	te Implemented:
TA]	RGETS Provide the specific and quantified five and ten-year targets as listed in wat
TA]	RGETS Provide the specific and quantified five and ten-year targets as listed in wat conservation plan for previous planning period.
TA]	Provide the specific and quantified five and ten-year targets as listed in wat conservation plan for previous planning period. 5-Year Specific/Quantified Target:
TA]	Provide the specific and quantified five and ten-year targets as listed in wat conservation plan for previous planning period. 5-Year Specific/Quantified Target: Date to achieve target:

targets are not bess on the targets	provide a	an explan	ation as to	o why, in	cluding any
	provide a	an explan	ation as to	o why, in	cluding any
	 				

If you have any questions on how to fill out this form or about the Water Conservation program, please contact the Texas Commission on Environmental Quality at (512) 239-4691.

Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, contact us at 512-239-3282.